



Patent No. : 6,993,249 B1
Serial No. : 09/691,806

PD990062

COFC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Marco Winter, et al.
Serial No. : 09/691,806 Patent No.: 6,993,249 B1
Filed : October 19, 2000
For : CODING METHOD FOR PICTURE SEQUENCE OR SUB-
PICTURE UNIT
Examiner : Huy Thang Hguyen
Art Unit : 2615
Customer No. : 24498

Certificate
JUN 16 2006
of Correction

REQUEST FOR CERTIFICATE OF CORRECTION

Chief Information Office
U.S. Patent and Trademark Office
Alexandria, VA 22313-1450

Sir:

It is respectfully requested that a Certificate of Correction be issued under the provisions of Rule 322 to correct errors in the above-identified patent. The corrections to be made are stated on the enclosed PTO-1050 forms.

As indicated on the front page of the issued patent, the error occurred in the printing of the patent and were not due to the fault of applicant.

Specifically, the inventor's name "Marco Wiinter" should be --Marco Winter--.

JUN 16 2006

Accordingly, it is respectfully requested that a Certificate of Correction be issued as indicated on the enclosed PTO-1050 forms.

Respectfully submitted,

By:


Francis A. Davenport
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June , 2006

Patent Operation
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Certificate of Mailing Under 37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Alexandria, VA 22313

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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,993,249

DATED : January 31, 2006

INVENTOR(S) : Marco Winter and Harald Schiller

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

On page 1 the inventor's name "Marco Wiinter" should be --Marco Winter--.

MAILING ADDRESS OF SENDER: Joseph S. Tripoli, Patent Operations
THOMSON Licensing Inc
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PATENT NO. 6,993,249

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JUN 16 2006



US006993249B1

(12) **United States Patent**
Wiinter et al.

(10) **Patent No.:** **US 6,993,249 B1**
 (45) **Date of Patent:** **Jan. 31, 2006**

(54) **CODING METHOD FOR PICTURE SEQUENCE OR SUB-PICTURE UNIT**

(75) Inventors: **Marco Wiinter**, Hannover (DE);
Harald Schiller, Hannover (DE)

(73) Assignee: **Thomson Licensing**,
 Boulogne-Billancourt (FR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 978 days.

(21) Appl. No.: **09/691,806**

(22) Filed: **Oct. 19, 2000**

(30) **Foreign Application Priority Data**

Oct. 20, 1999 (DE) 199 50 490

(51) **Int. Cl.**
H04N 5/91 (2006.01)

(52) **U.S. Cl.** **386/95; 386/126**

(58) **Field of Classification Search** **386/46, 386/95, 96, 98, 111, 112, 125, 126, 45**
 See application file for complete search history.

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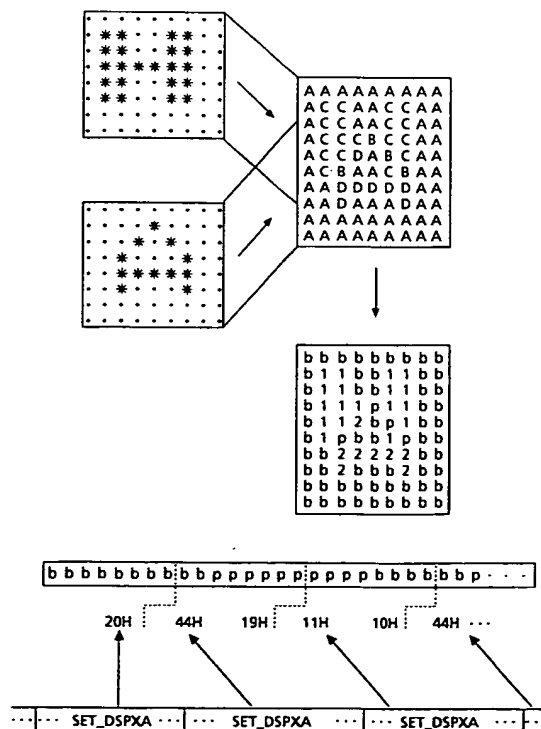
Primary Examiner—Huy Nguyen

(74) *Attorney, Agent, or Firm*—Joseph S. Tripoli; Francis A. Davenport; Jorge T. Villabon

(57) **ABSTRACT**

The DVD Standard specifies how, for example, subtitles can be overlaid on a video picture in a simple way. According to this Standard, in each case one so-called sub-picture data unit must be provided on a DVD disk per overlay. The DVD Standard does not contain any information as to how horizontally moving objects can also be displayed in a display window using such sub-picture data units, for example to provide a running script. The aim of the invention is to make it possible to produce horizontally moving objects such as running scripts, using the rules and instructions specified in the DVD Standard, while optimizing the memory requirement. The invention achieves the object by using a specific type of run-length coding in conjunction with a special way of combining object picture segments. The invention relates to a corresponding method for coding a picture sequence, and a corresponding sub-picture data unit as well as a data storage medium.

17 Claims, 5 Drawing Sheets



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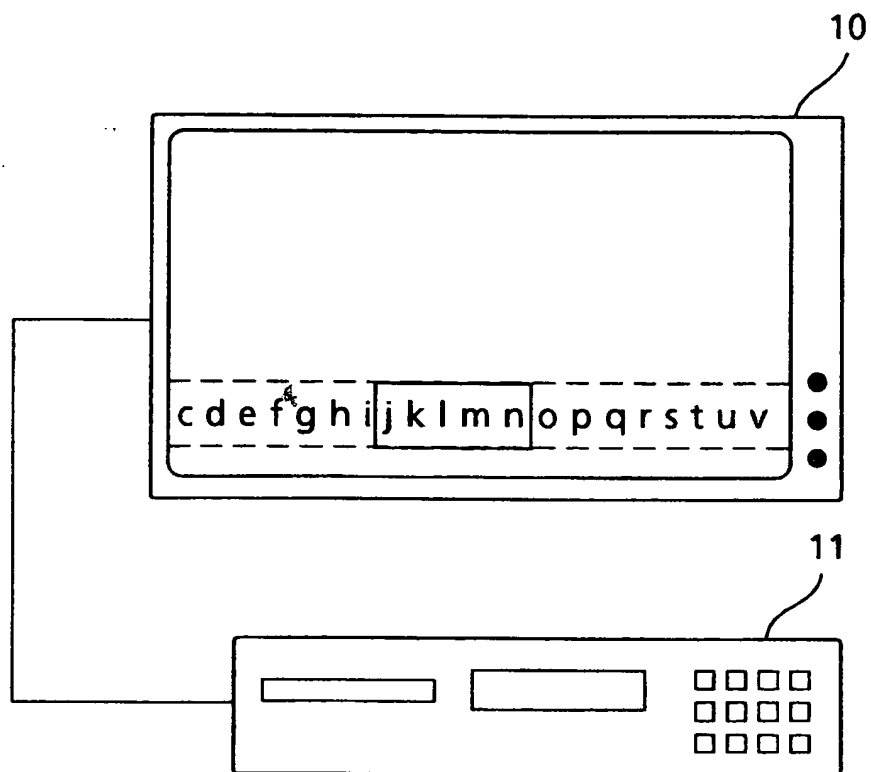


Fig.1

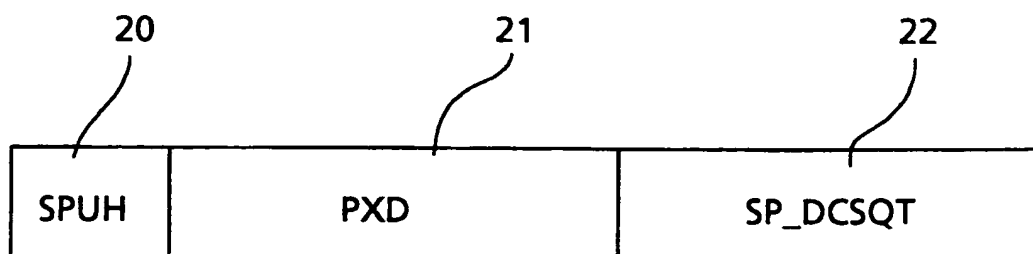


Fig.2